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INTRODUCTION

The Seaview Square Mall was built over the site of the M&T Delisa Landfill in Asbury Park, New Jersey. The landfill was active for approximately thirty years before it closed in 1975. Leachate streams and seepages have been observed entering a small stream which flows eastward through the site before emptying into Deal Lake. The Enviromental Photographic Interpretation Center (EPIC) was requested to analyze historical and current aerial photography of the landfill and mall sites.

Black and white aerial photography from 1940, 1951, 1961, 1969, 1970, and 1975 and color photography from 1983 was examined for this interim report; enlargements from 1951, 1969, 1970 and 1983 have been included in this report.

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GENERAL DISCUSSION

The M&T Delisa Landfill site is located in Asbury Park, New Jersey, in what was originally a wooded tract of land containing a small farm. A stream flows eastward across the site before emptying into Deal Lake. Deal Lake is located 0.5 km (0.3 mi) from the site and is the closest source of fresh water.

A shopping mall was constructed at the site of the landfill in the 1970's. Examination of the aerial photography indicates that the mall was built over the location of at least two debris piles.

The nearest residence is approximately 0.4 km (0.2 mi) away from the mall. Commercial and/or industrial areas immediately surround the mall.

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AERIAL PHOTO SITE ANALYSIS

1951

The active portion of the landfill is located along the eastern side of the southernmost of two new pools of standing liquid. Mounded material and debris in the active landfill area have been deposited around and among several structures which resemble building foundations. The graded area north of the active landfill area is probably an older portion of the landfill. A new excavation is located north of the graded area.

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1969 Analysis

The landfill has greatly increased in size since 1951. At least four debris piles can be seen in the central portion of the site.

Two extensive graded areas in the southern and western parts of the site are probably older portions of the landfill. Ground stains are apparent on the surface of the northernmost of these graded areas. Mounded material and a new excavation are apparent to the northwestern part of the site. Another small graded area is seen adjacent to the smallest debris pile in the northern part of the site. A large scarred area is evident to the east. Standing liquid is evident in two locations in the southern part of the site.

1970 Analysis

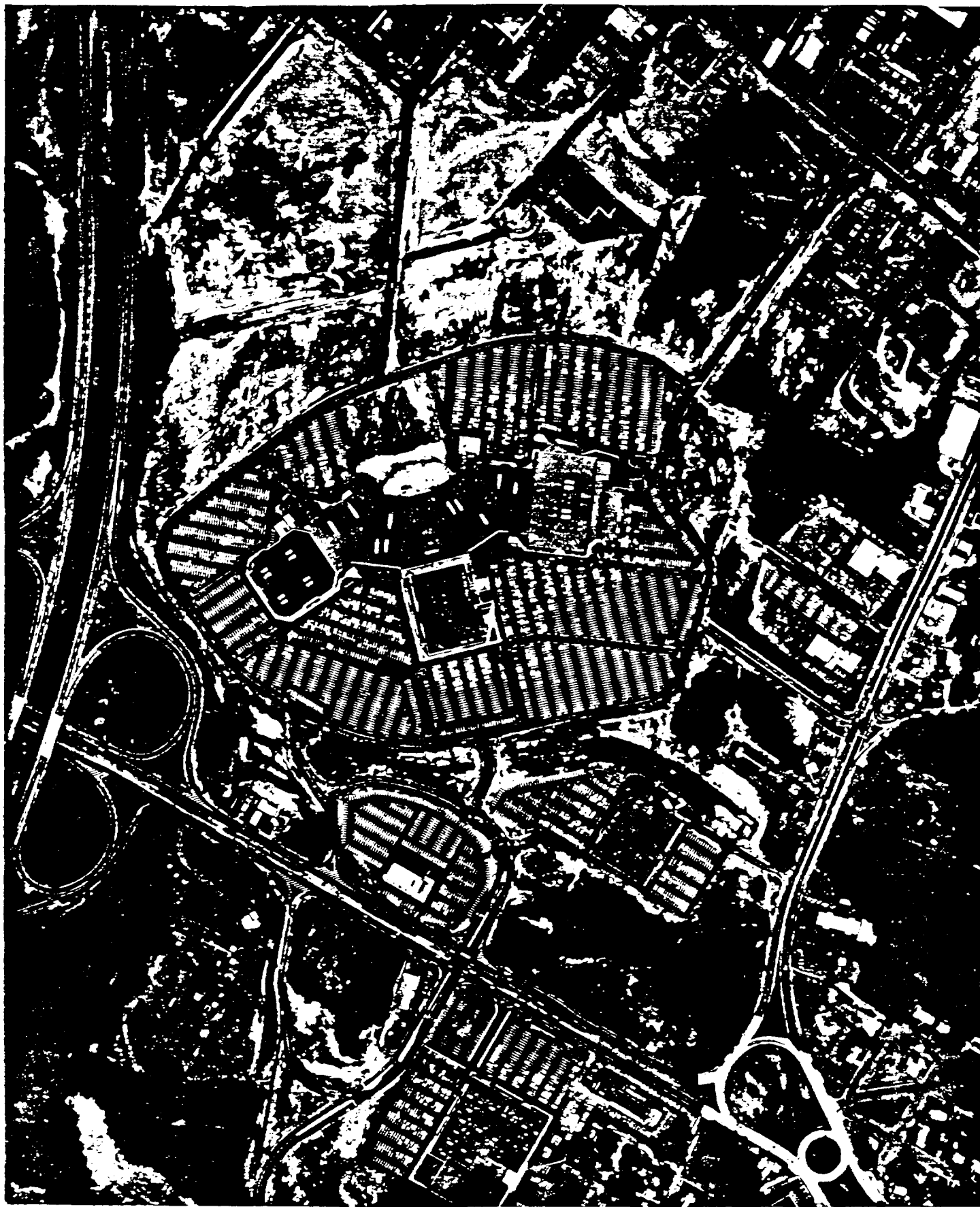
The site appears to be less active than it was in 1969. Only one of the four debris piles observed in 1969 is still apparent. Possible debris disposal is visible in an area south of the debris pile. The excavated area in the northwestern part of the site has increased in size. Most of the trees were removed south and east of the excavation as the area was graded. A new pit is seen southeast of the graded area. A ground scarred area noted in 1969 in the northeastern part of the site is still apparent.

Both ponds of standing liquid observed in 1969 are no longer present; however a new possible pool of standing liquid is now located in the eastern part of the site.

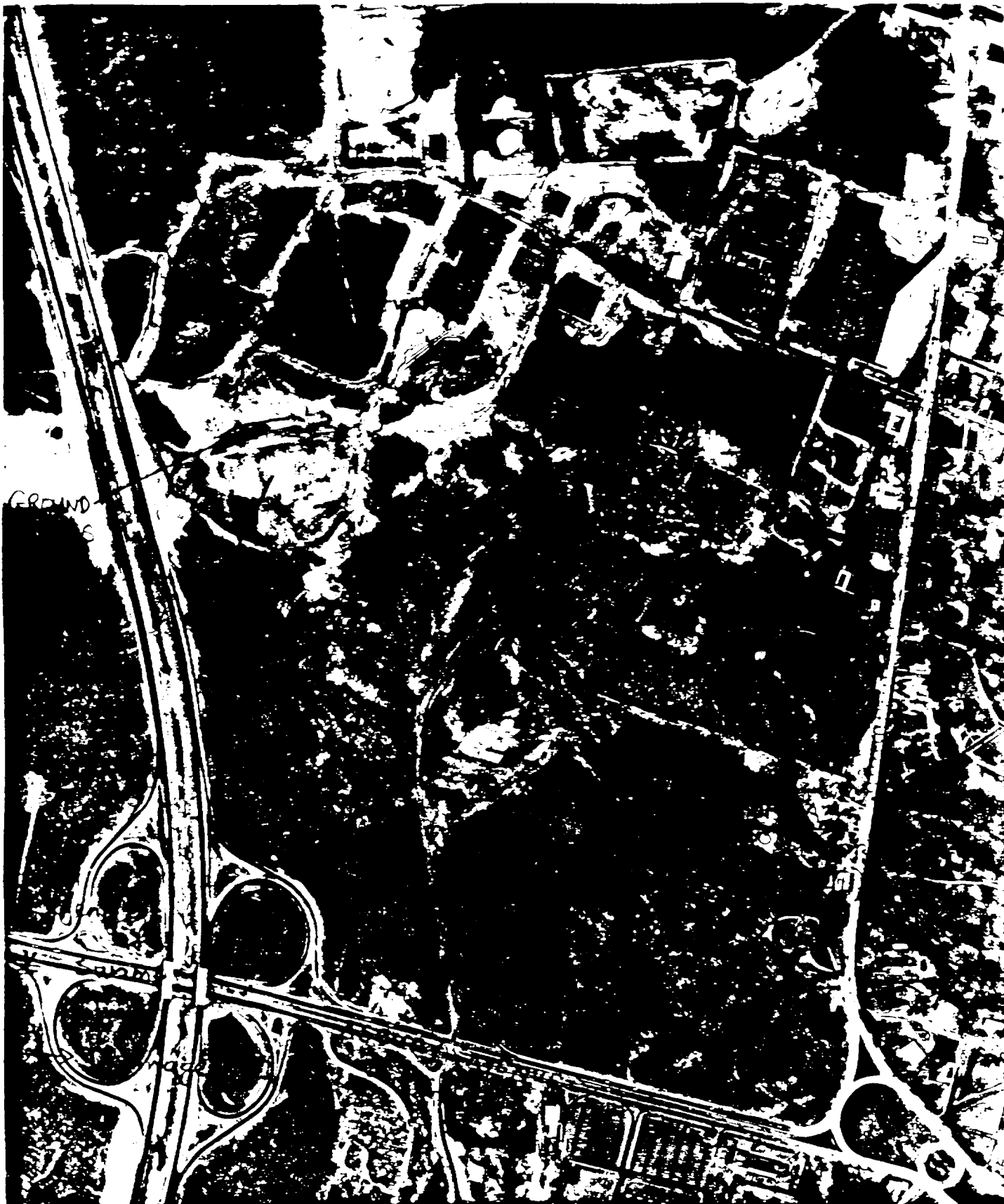
1983 Analysis

A large shopping mall now covers the site. Standing liquid and ground stains are evident in the western parking lot at the mall. Ground stains are also evident in the parking lot of a business on Neptune Highway; west of the parking lot a possible pool of standing liquid has collected. Another large pool of standing liquid is located in the wooded area at the intersection of Asbury Avenue and Neptune Highway. Liquid from this pool drains eastward into a small stream. Farther west, drainage also enters this stream from beneath the mall parking lots to the north and from additional parking lots to the south. Three small runoff trails also enter the stream from the south.

North of the mall a large trench is visible. Very little vegetation is growing in the area north of the mall.



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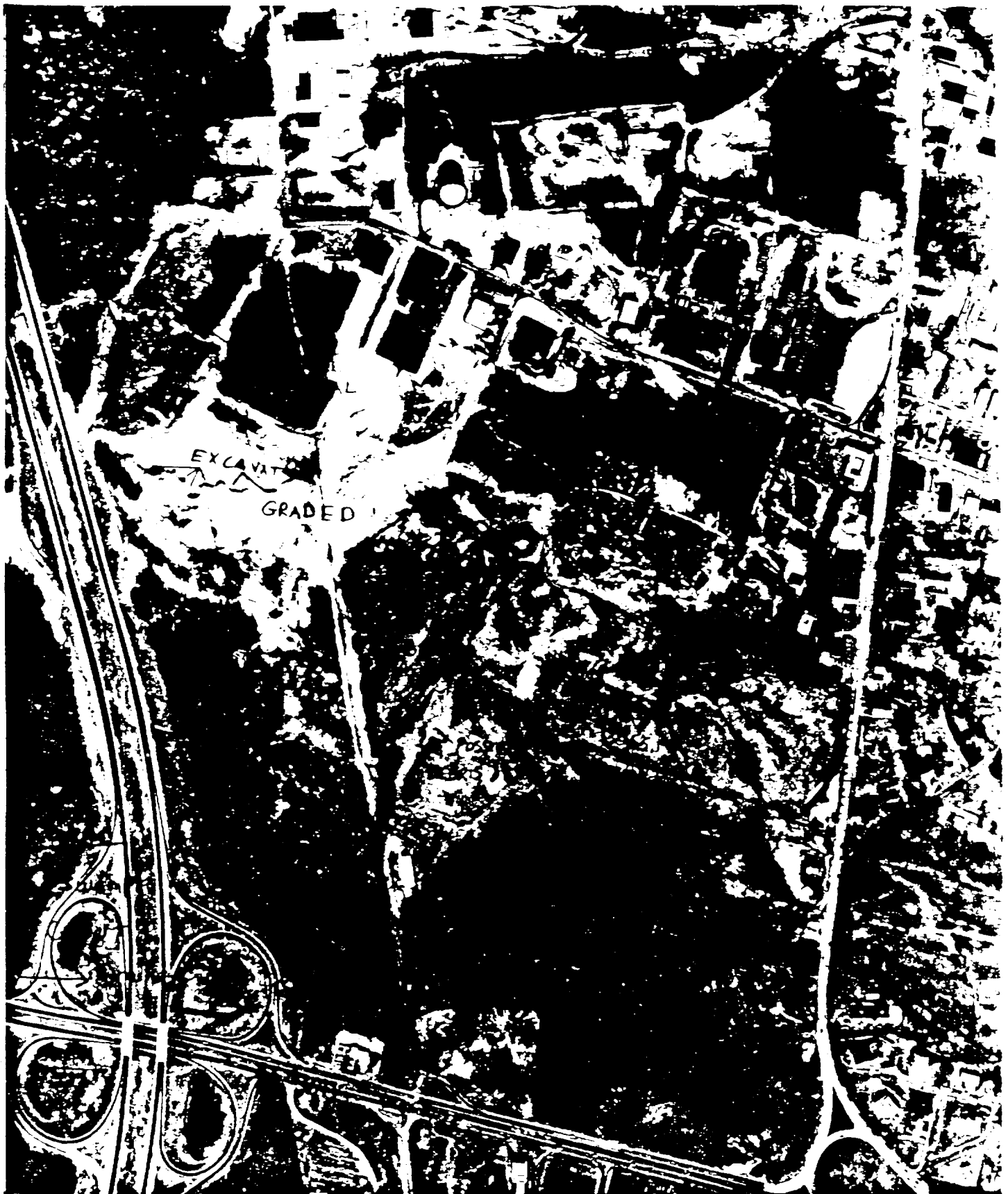


MET Delisa Site

April 1, 1969

Approx. Scale: 1:5000

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M&T Delisa Ste

February 2, 1970

Approx. Scale 1:5000
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